ABSTRACT OF THE DISCLOSURE

Flexural rigidity E of a target wire harness (to be referred to as a WH hereinafter) is calculated by a predetermined bi-quadratic function associated with a curvature ρ on the basis of a diameter ϕ of the WH, and the wiring shape of the WH which satisfy fixing positions is calculated on the basis of torsional rigidity C and the weight per unit length which are supplied from a storage device in accordance with the diameter ϕ of the target WH (S4 - S5). The bi-quadratic function is set such that the calculated flexural rigidity E decreases as the curvature ρ of the WH increases.